



United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number: ST04611CH

This certificate issued to: Nextant Aerospace
18601 Cleveland Parkway
Cleveland, OH 44135

Certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product A12EA
Type Certificate Number:

Make: Gulfstream
Model: GIV-X ; GV-SP ; GV

Description of Type Design Change:

Installation of a SpaceX Starlink Aviation System in accordance with Nextant Aerospace Master Data List, Doc. No. NT0078-MDL0-0100, Revision C, dated March 26, 2024, or later FAA-approved revisions.

Limitations and Conditions:

- 1) This STC is applicable to all serial numbers for these Make-Models.
- 2) The installer must determine whether this design change is compatible with previously approved modifications.
- 3) FAA Approved Airplane Flight Manual Supplement, Nextant Aerospace Doc. No. NT0078-AFMS-0100, Revision IR, approved March 7, 2024, or later FAA approved revision is required on board the modified GIV-X aircraft.
- 4) FAA Approved Airplane Flight Manual Supplement, Nextant Aerospace Doc. No. NT0078-AFMS-0200, Revision IR, approved March 15, 2024, or later FAA approved revision is required on board the modified GV-SP aircraft.

(See Continuation Sheet, Page 6 of 6.)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of Application. January 12, 2023

Date Reissued.

Date of Issuance. March 7, 2024

Date Amended. March 15, 2024; April 2, 2024

By Direction of the Administrator

Signature: 

Brenda L. Litchfield
ODA Administrator

Title: Envoy Aerospace, LLC ODA-831240-CE

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Supplemental Type Certificate

(Continuation Sheet)

Number: ST04611CH

Date Amended: March 15, 2024 ; April 2, 2024

Certification Basis:

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Gulfstream GIV-X, GV-SP and GV aircraft is as follows:

- a. The type certification basis for the Gulfstream GIV-X, GV-SP and GV aircraft is shown on TCDS A12EA for parts not changed or affected by the change.
b. This certification basis for parts changed or affected by the change since the reference date of application is based upon TCDS A12EA. Based on 14 CFR 21.115 and 21.101, and the FAA policy for significant changes in Order 8110.48, the certification basis for this modification was determined to be:

Applicable to Gulfstream GIV-X Aircraft

Applicable 14 CFR Part 25 regulations at the latest amendment 25-0 through 25-101

Table listing applicable 14 CFR Part 25 regulations from § 25.29(a)(b) to § 25.841(a) in three columns.

Applicable 14 CFR Part 25 regulations at other amendment levels

§ 25.869(a)(4) [Amdt 25-113]; § 25.981(a)(3) [Amdt 25-102].

Equivalent Level of Safety Findings

ELOS Memo ENV22044-F-1: § 25.251(b) - Vibration and Buffeting Requirements for Ku Band Antenna

(See Continuation Sheet, Page 4 of 6.)

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Supplemental Type Certificate

(Continuation Sheet)

Number: ST04611CH

Date Amended: March 15, 2024 ; April 2, 2024

Certification Basis (continued):

Applicable to Gulfstream GV-SP Aircraft

Applicable 14 CFR Part 25 regulations at the latest amendment 25-0 through 25-98

§ 25.29(a)(b)	§ 25.349(a)(b)	§ 25.853(a)
§ 25.111(a)-(d)	§ 25.351(a)(b)	§ 25.901(c)
§ 25.113(a)(b)	§ 25.365(a)(b)(d)(e)(f)	§ 25.903(c)
§ 25.115(a)(b)(c)	§ 25.561(a)(b)(c)	§ 25.1301(a)-(d)
§ 25.117	§ 25.571(a)(b)(e)(1)	§ 25.1307(c)
§ 25.119(a)(b)	§ 25.581(a)(b)(c)	§ 25.1309(a)(b)(d)(g)
§ 25.121(a)-(d)	§ 25.601	§ 25.1351(a)
§ 25.123(a)(b)(c)	§ 25.603(a)(b)(c)	§ 25.1353(a)(b)
§ 25.147(a)(c)(e)	§ 25.605	§ 25.1357(a)(c)(g)
§ 25.177(c)(d)	§ 25.607(a)(b)(c)	§ 25.1381(a)(b)
§ 25.251(a)-(e)	§ 25.609(a)(b)	§ 25.1419(a)
§ 25.301(a)(b)	§ 25.611	§ 25.1431(a)(b)(c)
§ 25.303	§ 25.613(a)(b)(c)(d)	§ 25.1501(a)(b)
§ 25.305(a)(b)(c)	§ 25.619(a)(b)(c)	§ 25.1529
§ 25.307(a)	§ 25.625(a)(b)(c)	§ 25.1581(a)(b)(d)
§ 25.321(a)(b)	§ 25.629(a)(b)(1)	§ 25.1583(c)
§ 25.331(a)(b)(c)	§ 25.777(a)(c)	§ 25.1585(a)
§ 25.335(a)-(d)	§ 25.789(a)	§ 25.1587(b)
§ 25.341(a)	§ 25.841(a)	

Applicable 14 CFR Part 25 regulations at other amendment levels

§ 25.869(a)(4) [Amdt 25-113]; § 25.981(a)(3) [Amdt 25-102].

Equivalent Level of Safety Findings

ELOS Memo ENV23063-25.251(b): § 25.251(b) – Vibration/Buffering Criteria for Externally Mounted Installations

(See Continuation Sheet, Page 5 of 6.)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).



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Supplemental Type Certificate

(Continuation Sheet)

Number: ST04611CH

Date Amended: March 15, 2024 ; April 2, 2024

Certification Basis (continued):

Applicable to Gulfstream GV Aircraft

Applicable 14 CFR Part 25 regulations at the latest amendment 25-0 through 25-81

§ 25.29(a)(b)	§ 25.307(a)	§ 25.611
§ 25.111(a)-(d)	§ 25.321(a)(b)	§ 25.613(a)(b)(c)(d)
§ 25.113(a)(b)	§ 25.331(a)(b)(c)	§ 25.619(a)(b)(c)
§ 25.115(a)(b)(c)	§ 25.341(a)	§ 25.625(a)(b)(c)
§ 25.117	§ 25.349(a)(b)	§ 25.629(a)(b)(1)
§ 25.119(a)(b)	§ 25.351(a)(b)	§ 25.841(a)
§ 25.121(a)-(d)	§ 25.365(a)(b)(d)(e)(f)	§ 25.901(c)
§ 25.123(a)(b)(c)	§ 25.561(a)(b)(c)	§ 25.903(c)
§ 25.147(a)(c)(e)	§ 25.581(a)(b)(c)	§ 25.1301(a)-(d)
§ 25.177(c)(d)	§ 25.601	§ 25.1309(a)(b)(d)(g)
§ 25.251(a)-(e)	§ 25.603(a)(b)(c)	§ 25.1353(a)(b)
§ 25.301(a)(b)	§ 25.605	§ 25.1419(a)
§ 25.303	§ 25.607(a)(b)(c)	§ 25.1431(a)(b)(c)
§ 25.305(a)(b)(c)	§ 25.609(a)(b)	§ 25.1529

Applicable 14 CFR Part 25 regulations at other amendment levels

§ 25.335(a)(b)(c)(d) [Amdt 25-91]; § 25.571(a)(b)(e)(1) [Amdt 25-96]; § 25.869(a)(4) [Amdt 25-113]; § 25.981(a)(3) [Amdt 25-102].

Equivalent Level of Safety Findings

ELOS Memo ENV24004-25.251(b); § 25.251(b) – Vibration/Buffering Criteria for Externally Mounted Installations

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(Continuation Sheet)

Number: ST04611CH

Date Amended: March 15, 2024 ; April 2, 2024

Limitations and Conditions (Continued):

- 5) FAA Approved Instructions for Continued Airworthiness – Airworthiness Limitations, Chapter 04-00-00 of Nextant Aerospace Doc. No. NT0078-ICA0-0100, Revision A, approved March 7, 2024, or later FAA approved revision is a required part of this STC for GIV-X aircraft.
- 6) FAA Approved Instructions for Continued Airworthiness – Airworthiness Limitations, Chapter 04-00-00 of Nextant Aerospace Doc. No. NT0078-ICA0-0200, Revision IR, approved March 15, 2024, or later FAA approved revision is a required part of this STC for GV-SP aircraft.
- 7) FAA Approved Instructions for Continued Airworthiness – Airworthiness Limitations, Chapter 04-00-00 of Nextant Aerospace Doc. No. NT0078-ICA0-0300, Revision A, approved April 2, 2024, or later FAA approved revision is a required part of this STC for GV aircraft.
- 8) This modification requires that the aircraft be shown to be electromagnetically compatible with transmitting portable electronics devices (T-PEDs) that utilize wireless data technologies.
- 9) The system is intended to provide non-essential, non-required internet connection and email services to the airplane's cabin using portable electronic devices (PEDs). Any other intended function of this equipment will require a re-examination of the certification basis.
- 10) If the holder agrees to permit another person to use this certificate to alter a product, the holder must give the other person written evidence of that permission.

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